



ACCADEMIA NAZIONALE DEI LINCEI

CENTRO LINCEO INTERDISCIPLINARE «BENIAMINO SEGRE»

Evolution Equations in Climate and Environmental Sciences

24-25 September, 2026

Organizing Committee: Franco FLANDOLI (Linco, Scuola Normale Superiore di Pisa), Piermarco CANNARSA (Università di Roma Tor Vergata/Centro “B. Segre”), Veronica DANESI (Università di Roma Tor Vergata)

PROGRAMME

Thursday the 24th

1st Session

- 9.15 Ciro CILIBERTO (Director of the Centro Linceo and University of Rome “Tor Vergata”): *Opening address*
- 9.30 Valerio LUCARINI (University of Leicester): *Linear Response and Optimal Fingerprinting for Nonautonomous Systems*
- 10.00 Cristina URBANI (Universitas Mercatorum): *Analysis of a Two-Layer Diffusive Energy Balance Model*
- 10.30 Tobias KUNA (University of L'Aquila): *Multi-Layer Stochastic Energy Balance Models and Uniqueness of the Stationary Measure*
- 11.00 Panel Discussion
- 11.15 Coffee break
- 11.45 Dino ZARDI (University of Trento): *Characteristic space- and time-scales of atmospheric and climate processes and implications for mathematical and numerical modelling*
- 12.15 Francesco BERRILLI (Linco, University of Rome Tor Vergata): *Solar Variability as Climate Forcing: Bolometric and Spectral Perspectives Across Time Scales*
- 12.45 Panel Discussion
- 13.00 End session and break

2nd Session

- 14.30 Luca LORENZI (University of Parma): *Recent results for vector-valued Schroedinger operators*
- 15.00 Giorgio METAFUNE (University of Salento): *Domain characterization for Schroedinger operators with sub-quadratic singularity*
- 15.30 Gianmario TESSITORE (University of Milan Bicocca): *Evolving Measures Corresponding to Nonlinear Semigroups in Forward-Backward Stochastic Dynamics*
- 16.00 Panel Discussion
- 16.15 Coffee break
- 16.45 Elisa FRANCINI (University of Firenze): *Inverse Problems for Complex Media: Stability, Interfaces and Unique Continuation*
- 17.15 Abdelaziz RHANDI (University of Salerno): *Perturbation theorem for the essential spectral radius with application to a spatial tumor invasion with cell age*
- 17.45 Anna DOUBOVA (University of Sevilla): *Reconstruction of degeneracy in parabolic equations*
- 18.15 Panel Discussion
- 18.30 End session
- 20.00 Social dinner

Friday the 25th

3rd Session

- 9.30 Giuseppe Floridia (Sapienza University of Rome): *Variational Analysis of Transition Climates in 1-D Degenerate and 2-D Spherical Energy Balance Models*
- 10.00 Gianmarco Del Sarto (TU Darmstadt): *Continuous data assimilation with multiplicative observation noise*
- 10.30 Genni Fragnelli (University of Siena): *On the null controllability of non-autonomous degenerate PDEs with a climatological application*
- 11.00 Panel Discussion
- 11.15 Coffee break
- 11.45 Carlo Nitsch (University of Naples Federico II): *Improving a Spectral Inequality by Payne*
- 12.15 Helene Frankowska (IMJ-PRG, CNRS and Sorbonne Université, Paris): *Viability and Invariance of Sets under Transport Control Systems in Wasserstein Spaces*
- 12.45 Panel Discussion
- 13.00 End session

Segreteria del convegno: centrolinceo@lincei.it

Tutte le informazioni per partecipare al convegno sono disponibili su:

<https://www.lincei.it/it/manifestazioni/evolution-equations-climate-and-environmental-sciences>

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